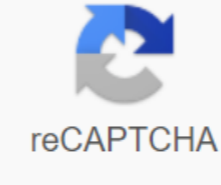




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intake of dietary carbohydrates in the small intestine and reduce post-prandial hyperglycemia, which can be a useful mechanism in the preparation of antidiabetic drugs. This is largely used as an effective pharmacological strategy to manage hyperglycemia associated with early stages of type 2 diabetes. On the other hand, catalysis catalysis of hydrolysis z-Galactosids is subtracted from simple carbohydrates in the gut. Subsequently, inhibition of this enzyme can lead to a decrease in intestinal hydrocarbons and ultimately reduce glucose levels. A. longa extracts showed inhibitory effects on both enzymes tested in Table 3. The result showed that the extracts tested inhibited the concentration of activity of glucosidase and galactosidase (0.5-5 mg/ml). Indeed, at a concentration of 1.5 mg/ml, the ethyl acetate fraction has the highest inhibitory activity against K-Glucosidase (76.56-2.54%) And K-Galactosidase (12.70-1.27%) and «Галактосидаза» (2.05–1.22%). Однако, aqueous экстракт ингибирует только энзиматической активности 3-Галактозидазы (2,20%). Эти результаты согласуются с результатами Джанани и Ревати, которые работали над другим видом аристохицев (A. indica). Их исследование показало, что метанольный экстракт всего растения показал ингибирующую активность глюкозидазы, которая увеличивалась с увеличением концентрации. Экстракт/Стандарт-Глюкозидаза ингибирование-Галактозидаза ингибирование% ингибирования при 1,5 мг/мл (мг/мл)% ингибирования при 1,5 мг/мл (мг/мл)Этил ацетат фракция76. 56'2.54b1.112'0.026b12.70'1.27b-5Метанольная фракция21.94'1.34a2.378 0.037b2.05'1.22a-5Акционная дробная 5па-5Акеозная экстракта 52,20'0.13a-5Акарбозе96.78 0,03с0.199'0.014a-----Кверцетин-----92.62'0.14с0.247'0.00bпа: неактивный; среднее - SD (n'3). Значения в одной колонке, не разделяющей общую букву (от а до с), значительно различаются при р3 0.05.То измеряют ингибирующую эффективность каждого экстракта, мы использовали IC50, который представляет собой концентрацию ингибитора, который необходим для 50% ингибирования его целевого фермента. Фракции этилового ацетата и метанола показали сильную ингибирующую способность против глюкозидазы со значениями IC50 1.112'0.026 и 2.378'0.037 мг/мл Accordingly. These inhibition values are greater than acarbose (0.199'0.014 mg/ml) used as a standard Similar effects were observed on A. indica. Similarly, the values of infection with glucosidase extract and aqial fraction above 5 mg/ml. For the inhibitory ability of K-Galactosidase, all extracts showed a value of IC50 more than 5 mg/ml. The fact that Glucosidase and Galactosidase showed a difference due to structural differences associated with the origin of enzymes. The inhibitory effects of A. longa extracts against the enzyme No-Glucosidase demonstrate their potential ability to reduce post-prandial blood glucose levels in diabetic patients and their ability to prevent type 2 diabetes. Thus, it is assumed that the antihyperglycemic mechanism may be associated with the antioxidant activity of this herb. Our finding corresponds to earlier reports that showed that in animal models two of its species, A. indica air parts and A. ringens root extracts, showed a decrease in elevated blood glucose levels. In addition, the results are consistent with a study performed on 71 herbal plants to test their antidiabetic effects, which showed that 36 herbs were inhibiting glucosidase including the species Aristolochiaceae (Asarum hetropteroroides). The differences observed for the inhibitory activity of the enzyme can be explained by changes in the percentage of inhibition relative to the phytochemical composition of plant species, as well as the sensitivity of enzymes. Consequently, as mentioned above, phytochemical studies on A. longa have demonstrated its ability to produce large amounts of phenolic compounds and several flavonoids, including alkaloids, saponins and tannins. Phenol compounds are known for their ability to suppress the activity of carbohydrate-hydrolysing enzymes due to their ability to bind to proteins. In addition, the presence of flavonoids, especially in the ethyl acetate fraction, may explain the observed inhibitory activity. In fact, flavonoids are known to have high inhibitory potential for glucosidase in both in vitro and in vivo studies (74) and can prevent malfunction of pancreatic beta cells due to oxidative stress and thus can reduce the onset of type 2 diabetes. It is important to note that some researchers have indicated that there is a positive link between the overall content of flavonoids and polyphenols and the ability to inhibit glucosidase. The inhibitory effect observed in the Methanol fraction A. longa may be associated with the presence of other phytoconstitists such as alkaloids, tannins and saponins (76, 77). These latter were responsible for suppressing the absorption of fluid and glucose on the edges of the brush. These compounds, which can also inhibit glucosidase, have fewer side effects and are cheaper compared to synthetic pharmacotherapists like Acarbose. they perform perform other biological activities such as antibacterial, antioxidant and anti-cancer drugs. Typically, herbal medicine is based on the therapeutic effect of a mixture of different compounds acting often in synergy to have all their beneficial effects. This suggests that the biologically active compounds present in the extracts studied may have a synergistic way of exercising their carbohydrate-hydrolysing enzymes of activity inhibition and antioxidant effect. Observed changes in the chemical composition of Aristolochia sp from different parts of the world are due not only to the type of species, but also to different agroclimatic conditions, extraction method, harvest period and characteristics (81, 82), as well as selected part of plant and polarity of extraction solvents. As for plant extracts, other studies have shown that some may increase the secretion of insulin and insulin signaling in fat and skeletal muscles. In this study, we investigated the antidiabetic potential of A. longa, which is used in traditional medicine to treat a number of diseases. This herb has not previously been studied for its antidiabetic in vitro activity. The results of this work should be relevant to the human body4. The finding of A. longa roots had the best antioxidant effects against the radicals of DPPH and ABTS and the strong force of ferret reduction. This suggests that A. longa can be used to prevent and control oxidative stress caused by free radicals. Antidiabetic activity was also investigated, focusing on inhibitory effects on glucosidase and galactosidase. Our study is the first to report on the potential mode of action of A. longa and suggests that the effect of this plant is due to inhibition of digestive enzymes. On the other hand, the presence of flavonoids and phenols concludes that this herb has several biological properties. Other studies should be conducted to isolate the active ingredients of this plant, identify them, and examine their bioactivity. The availability of data Personal data used to support the results of this study is included in the article. Conflicts of interest Authors have no conflict of interest to declare. 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