



GLUCOMORINGIN

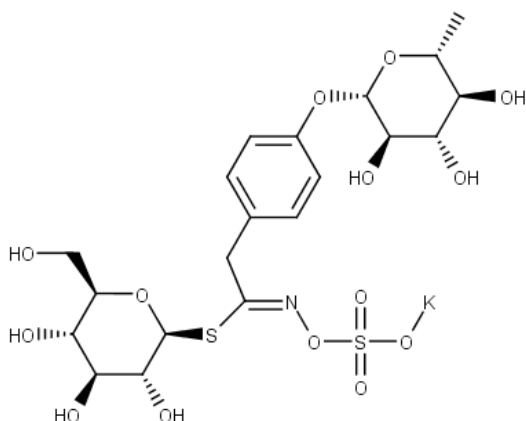
from *Moringa oleifera* seeds

Moringa oleifera is the most widely cultivated species of the genus *Moringa*. English common names include: moringa, drumstick tree (from the appearance of the long, slender, triangular seed-pods), horseradish tree (from the taste of the roots) or benzoil tree (from the oil of the seeds). It is a fast-growing, drought-resistant tree, native to the southern foothills of the Himalayas, and widely cultivated in tropical and subtropical areas, where its seed pods and leaves are used for human and animal food. It can also be used in herbal medicine and therefore becomes very popular as nutraceutical.

Moringaceae is a family of the order Capparales – like Brassicaceae, Capparaceae, etc - and seeds of the plant contain 8%–10% of a structurally unusual glucosinolate, the so called glucomoringin :



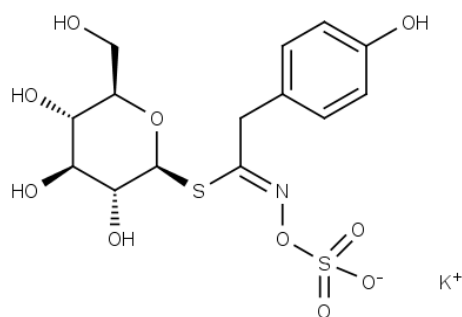
4-(α - L-rhamnosyloxy)benzyl glucosinolate



Chemically, compared to other glucosinolates, glucomoringin presents a unique characteristic structure consisting of an additional saccharidic residue in its side chain : it could be considered as a rhamnoside of the well known Sinalbin.

Glucomoringin is a typical secondary metabolite present in almost all plants belonging to the *Moringa* genus that consists of 14 species, among which *Moringa oleifera* is the most widely distributed and cultivated. It is very specific to this genus, even if it also has been reported in *Nocaea caerulea* (Alpine penny-cress), a brassicaceae .

Glucomoringin - Ref #2506S



Sinalbin - Ref #2511S

The medical value of the seeds and other parts of the plant has long been recognized in folk medicine and different extracts have also been tested as anticancer, anti-inflammatory, hepato-protective agents and for their antimicrobial activity. These properties are mainly attributed to the glycosylated isothiocyanate resulting from myrosinase hydrolysis of glucomoringin.

For the first time on the market, EXTRASYNTHÈSE offers **Glucomoringin potassium salt** as **analytical standard** for quantitative titration in extracts or herbal products, or to be used as samples for R&D studies.

Contact: info@extrasynthese.com

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