



LKT Laboratories, Inc.

Glucoraphanin Potassium

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Product Information

Product ID G4781

CAS No. 21414-41-5

Chemical Name

Synonym

Formula $C_{12}H_{22}KNO_{10}S_3 \cdot xH_2O$

Formula Wt. 475.60

Melting Point

Purity $\geq 98\%$

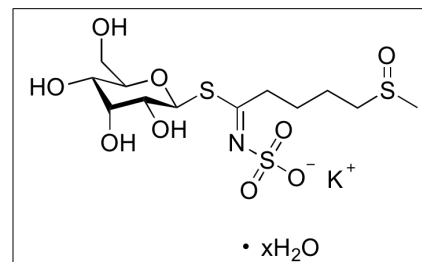
Solubility Soluble in water.

Store Temp 4°C

Ship Temp Ambient

Description Glucoraphanin is a glucosinolate originally found in cruciferous vegetables of the *Brassicaceae* family, such as broccoli. Glucoraphanin exhibits anti-inflammatory and neuroprotective activities. In an animal model of spinal cord injury, glucoraphanin decreases histological inflammatory damage. In an animal model of restraint stress, this compound decreases stress-induced production of TNF- α and IL-1 β and also increases IL-10 levels. Glucoraphanin decreases dopamine transporter degradation, expression of tyrosine hydrolase, and release of IL-1 β and ROS as well as apoptosis in MPTP-induced animal models of Parkinson's disease. In animal models of multiple sclerosis (experimental autoimmune encephalitis; EAE), glucoraphanin decreases translocation of NF- κ B, release of pro-inflammatory cytokines, and apoptosis.

Weight is on anhydrous basis.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G4781	1 mg	\$116.00
G4781	5 mg	\$204.50
G4781	10 mg	\$395.20
G4781	25 mg	\$843.60

References Galuppo M, Giacoppo S, De Nicola GR, et al. RS-Glucoraphanin bioactivated with myrosinase treatment counteracts proinflammatory cascade and apoptosis associated to spinal cord injury in an experimental mouse model. *J Neurol Sci.* 2013 Nov 15;334(1-2):88-96. PMID: 23992921.

Galuppo M, Iori R, De Nicola GR, et al. Anti-inflammatory and anti-apoptotic effects of (RS)-glucoraphanin bioactivated with myrosinase in murine sub-acute and acute MPTP-induced Parkinson's disease. *Bioorg Med Chem.* 2013 Sep 1;21(17):5532-47. PMID: 23810671

Foti Cuzzola V, Galuppo M, Iori R, et al. Beneficial effects of (RS)-glucoraphanin on the tight junction dysfunction in a mouse model of restraint stress. *Life Sci.* 2013 Aug 28;93(7):288-305. PMID: 23871805.

Giacoppo S, Galuppo M, Iori R, et al. Protective role of (RS)-glucoraphanin bioactivated with myrosinase in an experimental model of multiple sclerosis. *CNS Neurosci Ther.* 2013 Aug;19(8):577-84. PMID: 23638842.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.