Recombinant Human Proenkephalin-A/PENK Protein (His Tag)

Catalog No. PKSH032934

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Synonyms	Proenkephalin-A; Synenkephalin; Met-Enkephalin; Leu-Enkephalin; PENK
Species	Human
Expression Host	Human Cells
Sequence	Glu25-Phe267
Accession	P01210
Calculated Molecular Weight	29.2 kDa
Observed molecular weight	36 kDa
Tag	C-6His
Properties	
Purity	>95 % as determined by reducing SDS-PAGE.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20mM PB,150mM NaCl,pH7.4.
Reconstitution	Please refer to the printed manual for detailed information.
Data	

kDa 120 90	MK	R
60		
40		-
30		-
20		
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Background

Proenkephalin-A is a secreted protein that belongs to the opioid neuropeptide precursor family. Proenkephalin-A is an endogenous opioid polypeptide hormone which, via proteolyic cleavage, produces the enkephalin peptides [Met]enkephalin, and to a lesser extent, [Leu]enkephalin. Met- and Leu-enkephalins compete with and mimic the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress. Proenkephalin-A (114-133) and Proenkephalin-A (237-258) increase glutamate release in the striatum. Proenkephalin-A (114-133) decreases GABA concentration in the striatum.

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