
Product Data Sheet

Product Name: GAL Human
 Cat. No.: GP23534
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GALN; GLNN; GMAP; GAL; GAL1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSASAGLWS PAKEKRGWTL NSAGYLLGPH AVGNHRFSFD KNGLTSKREL RPEDDMKPGS FDRSIPENNI MRTIIEFLSF LHLKEAGALD RLLDLPAAASSEDIERS.		
Formulation	The GAL solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 50% glycerol and 2mM DTT.		

Introduction

Galanin Prepropeptide (GAL) which is localized in brain pathways is involved in both cognition and affect, and also inhibits learning and memory by inhibiting neurotransmitter release and neuronal firing rate. GAL is a part of the galanin family and modulates a variety of physiological processes including cognition/memory, sensory/pain processing, neurotransmitter/hormone secretion, and feeding behavior. Galanin Prepropeptide is upregulated in primary afferent and sympathetic neurons and is required for the development of sympathetic perineuronal baskets subsequent to nerve injury.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GAL Human Recombinant produced in E. coli is a single polypeptide chain containing 127 amino acids (20-123) and having a molecular mass of 13.9kDa. GAL is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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