

GAL, 20-123aa

Cat.NO.: TP02184

3th Edition

Synonyms: Galanin peptides preproprotein, GALN, GLNN, GMAP.

Description: Galanin peptides preproprotein, also known as GAL, is localized in brain pathways involved in both cognition and affect, and may inhibit learning and memory by inhibiting neurotransmitter release and neuronal firing rate. It modulates a variety of physiological processes including cognition/memory, sensory/pain processing, neurotransmitter/hormone secretion, and feeding behavior. GAL is upregulated in primary afferent and sympathetic neurones and may be involved in the development of sympathetic perineuronal baskets ("rings") following nerve injury. Recombinant human GAL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Molecular Weight: 13.9kDa (127aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSAAGLWSPAKEKRGWTLNSAGYLLGPHAVGNHRFSFSDKNGLTSKREL RPE
DDMKPGSFDRSIPENNIMRTIIEFLSFLHLKEAGALDRLLDLPAASSIEDIERS

Purity: > 95% by HPLC

Concentration: 0.25 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.