
Product Data Sheet

Product Name: PNOG Human
 Cat. No.: GP24201
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prepronociceptin; Nocistatin; OFQ; Pre-Pro-N/OFQ; Pronociceptin; Orphanin FQ; Nociceptin; PpN/OFQ; N/OFQ; PPNOC.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSCQRDCL TCQEKLHPAL DSFDLEVCIL ECEEKVPSP LWTPCTKVMA RSSWQLSPAA PEHVAAALYQ PRASEMQLR RMPRVRS LFQ EQEEPEPGME EAGEME QKQL QKRFGGFTGA RKSARKLANQ KRFSEFMRQY LVLSMQSSQR RRTLHQNGNV.		
Formulation	PNOG protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

Prepronociceptin (PNOG) is the ligand of the opioid receptor-like receptor (OPRL1). PNOG functions as a transmitter in the brain by modulating nociceptive and locomotor behavior. The PNOG protein may also be involved in neuronal differentiation and development.

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

PNOG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 180 amino acids (20-176) and having a molecular mass of 20.6kDa. PNOG is fused to a 23 amino acid His-tag at N-terminus.

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

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