
Product Data Sheet

Product Name: TAC3 Human
 Cat. No.: GP24767
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tachykinin-3; ZNEUROK1; Neurokinin-B; NKB; Neuromedin-K; TAC3; NKNB; PRO1155.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH QSFGAVCKEP QEEVPPGGGR SKRDPDLYQL LQRLFKSHSS LEGLLKALSQ ASTDPKESTS PEKRDMHDFV VGLMGKRSVQ PDSPTDVNQE NVPSFGILKY PPRAE.		
Formulation	The TAC3 solution contains 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol.		

Introduction

Tachykinin-3 belongs to the substance P-related tachykinin family. Tachykinins are active peptides that stimulate neurons, induce behavioral responses, are effective vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles. TAC3 and its receptor are essential switches of regulator of human puberty, regulated by the brain through the release of the GnRH which starts a chain of processes which eventually lead to the production of sex hormones. During pregnancy, the expression of TAC3 is restricted to the outer syncytiotrophoblast of the placenta, significant concentrations of TAC3 can be identified in plasma as early as week 9, and plasma concentrations of TAC3 are grossly elevated in pregnancy-induced hypertension and pre-eclampsia. Higher Tachykinin-3 concentrations in normotensive pregnant women may be caused by the advanced gestational age and/or the result of a negative interaction of other vasoactive substances. TAC3 has a role in the continuance of high placental blood flow in normal pregnancy.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

TAC3 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 125 amino acids (17-121 a.a.) and having a molecular mass of 13.8kDa. The TAC3 is purified by proprietary chromatographic techniques.

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