

Certificate Of Analysis

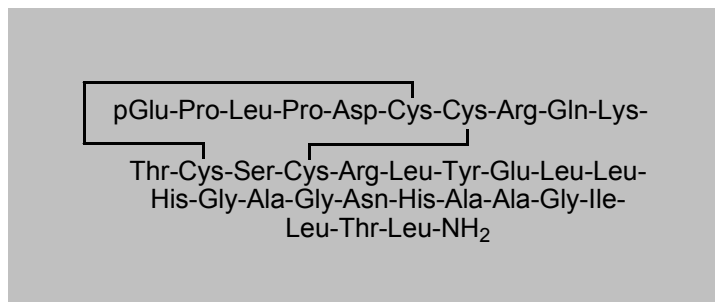
Quality Control Testing and Research Application

COA Preparation Date: 07/12/2016
COA Revision Date: 07/12/2019

Product: Orexin A (human, rat, mouse)
Cat. No.: BP0215
Batch No.: 0215BP/09
Chemical Name: Orexin A (human, rat, mouse) trifluoroacetate salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅₂H₂₄₃N₄₇O₄₄S₄
Batch Molecular Weight: 3561.12
CAS No.: [205640-90-0]
Physical Appearance: White to off-white lyophilised solid
Melting Point:
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20° C
Batch Molecular Structure:



Product Description: Endogenous Orexin (OX) receptors agonist (K_i values are 20 and 38 nM for OX₁ and OX₂ receptors respectively). Hypothalamic neuropeptide that regulates the feeding behavior. Central administration of this peptide to rats stimulated food consumption in a dose-dependent manner. Also involved in the control of sleep-wake cycle and other hypothalamic functions.

References: 1. Sakurai et al. (1998) Cell 92:573; 2. Schwartz (1998) Nature Med 4:385; 3. Smart (1999) Br J Anaesth 83:695; 4. Kilduff and Peyron (2000) TiNS 23:359; 5. Sakurai (2005) Regul Pept 126:3

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: 95.9 % (complies).

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