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32-2422: HAAO Recombinant Protein

Alternative Name : 3-hydroxyanthranilate 3,4-dioxygenase,3-hydroxyanthranilate oxygenase,3-HAO,3-hydroxyanthranilic acid dioxygenase,HAD,HAAO,HAO.

Description

Source : Escherichia Coli. HAAO Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-286 a.a.) and having a molecular mass of 35kDa.HAAO is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. HAAO is a monomeric cytosolic protein which is a member of intramolecular dioxygenases family containing nonheme ferrous iron. The HAAO protein catalyzes the synthesis of quinolinic acid (QUIN) from 3-hydroxyanthranilic acid. QUIN is an excitotoxin whose toxicity is facilitated by its ability to activate glutamate N-methyl-D-aspartate receptors. Amplified cerebral levels of QUIN may contribute to the pathogenesis of neurologic and inflammatory disorders. HAAO is widely distributed in peripheral organs, such as liver and kidney, and is also present in low amounts in the central nervous system.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	HAAO protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSHMERRLG VRAWVKENRG SFQPPVCNKL MHQEQLKVMF IGGPNTRKDY HIEEGEEVFY QLEGDMVLRV LEQGKHRDVV IRQGEIFLLP ARVPHSPQRF ANTVGLVVER RRLETELDGL RYYVGDTMDV LFEKWFYCKD LGTQLAPIIQ EFFSSEQYRT GKPIPDQLLK EPPFPLSTRS IMEPMSLDAW LDSHHRELQA GTPLSLFGDT YETQVIAYGQ GSSEGLRQNV DVWLWQLEGS SVVTMGGRRL SLAPDDSLLV LAGTSYAWER TQGSVALSVT QDPACKKPLG.

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