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IDO1, 1-403aa, Human, His-tag, E.coli (Bioactivity Validated)

产品货号: TP02562

第三版

别名: Indoleamine 2,3-dioxygenase 1, IDO, IDO-1, INDO

描述: IDO1 is an indoleamine 2,3-dioxygenase - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, and serotonin. It is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan. Recombinant human IDO1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方: Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

分子量: 47.7 kDa (426aa), confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSMAMENSWTISKEYHIDEEVGFALPNPQENLPDFYNDWMFIAKHLPDLIESGQL
RERVEKLNMLSIDHLTDHKSQRLARLVLCITMAYVWGKGHGDVRKVLPRNIAVPYCQLSKKLELPPILVYADCVLANW
KKKDPNKPLTYENMDVLFSDGDCSKGFFLVLLVEIAAASAIVKVIPTVFKAMQMQRDTLLKALLEIASCLEKALQVFHQ
IHDHVNPKAFFSVLRIYLSGWKGNPQLSDGLVYEGFWEDPKEFAGGSAGQSSVFQCFDVLLGIQQTAGGGHAAQFLQDM
RRYMPPAHRNFLCSLESNPSVREFVLSKGDAGLREAYDACVKALVSLRSYHLQIVTKYILIPASQQPKENKTSSEDPKLEAKG
TGGTDLMNFLKTVRSTTEKSLLEK

纯度: > 95% by HPLC

浓度: 0.5 mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.