

Indoleamine 2,3-Dioxygenase 1 Human Recombinant, Active

Item Number	rAP-1445
Synonyms	IDO, IDO-1, INDO, Indoleamine 2,3-dioxygenase 1, Indoleamine-pyrrole 2,3-dioxygenase.
Description	IDO1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 426 amino acids (1-403a.a) and having a molecular mass of 47.7kDa. IDO1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P14902
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAMAHAMEN SWTISKEYHI DEEVGFALPN PQENLPDFYN DWM- FIAKHLP DLIESGQLRE RVEKLNMLSI DHLTDHKSQR LARLVLCIT MAYVWVGKGGH DVRKVLPRNI AVPYCQLSKK LELPPILVYA DCVLNWKKK DPNKPLTYEN MDVLFSTRDG DCSKGFFLVS LLVEIAAA- SA IKVIPTVFKA MQMQRDTLL KALLEIASCL EKALQVFHQI HDHVNPKAFF SVLRIYLSGW KGNPQLSDGL VYEGFWEDPK EFAGGSAGQS SVFQCFDVLV GIQQTAGGGH AAQFLQDMRR YMP- PAHRNFL CSLESNPSVR EFVLSKGDAG LREAYDACVK ALVSLRSYHL QIVTKYLIP ASQQPKENKT SEDPSKLEAK GTGGTDLNMF LKTVRSTTEK SLLKEG.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The IDO1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 300 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of L-Tryptophan to N-formyl-Lkynurenine per minute at pH 6.5 at 25C.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**