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IDO Recombinant Protein

CATALOG NUMBER: 90-017

Specifications

SPECIES:	Mouse
SOURCE SPECIES:	E. coli
SEQUENCE:	Mouse IDO (aa 1-407) is fused at the C-terminus to a His-tag.
FUSION TAG:	His Tag
APPLICATIONS:	This recombinant proteins is for research use only.
BIOLOGICAL ACTIVITY:	Specific Activity: >100'000U/mg protein with L-tryptophan as substrate. One unit is defined as the amount of enzyme that produces 1nmol of kynurenine per hour.

Properties

PURITY:	>90% (SDS-PAGE)
PHYSICAL STATE:	Liquid
BUFFER:	0.2um-filtered solution in 50mM TRIS-Cl, pH 7.4, containing 1mM EDTA.
CONCENTRATION:	1mg/ml
STORAGE CONDITIONS:	Working aliquots are stable for up to 3 months when stored at -20˚C.

Additional Info

ALTERNATE NAMES:	Indoleamine 2,3-dioxygenase, INDO
ACCESSION NO.:	P28776
PROTEIN GI NO.:	123949

Background

IDO catalyzes the first and rate-limiting step in the main pathway of human tryptophan catabolism, the kynurenine pathway. Proinflammatory mediators, such as endotoxin and IFN-gamma induce the expression of IDO in several tissues. IDO-dependent suppression of T cell responses might function as natural immunoregulatory mechanism. Physiological IDO activity has been implicated in T cell tolerance to tumors, dysfunctional selftolerance in non-obese diabetic (NOD) mice, and as a protective negative regulator in autoimmune disorders.

FOR RESEARCH USE ONLY

December 14, 2016