

Indoleamine-pyrrole 2,3-dioxygenase (**IDO** or INDO EC 1.13.11.52) is a heme-containing enzyme that in humans is encoded by the IDO1 gene.

It is one of three enzymes that catalyze the first and rate-limiting step in the kynurenine pathway, the O₂-dependent oxidation of L-tryptophan to N-formylkynurenine, the others being IDO2 and tryptophan 2,3-dioxygenase (TDO).

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