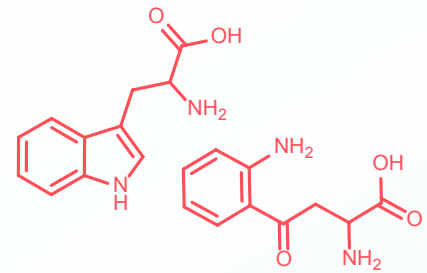




Kynurenine/ Tryptophan Ratio



Kynurenine Pathway

The kynurenine pathway is a metabolic pathway leading to the production of nicotinamide adenine dinucleotide (NAD⁺) from the enzymatic conversion of tryptophan. Immune activation leads to the formation of kynurenine with corresponding loss of tryptophan.

The kynurenine/tryptophan ratio has been used to reflect the activity of the tryptophan-degrading enzyme indoleamine 2,3-dioxygenase (IDO) in cellular inflammatory response related to symptoms of depression, schizophrenia, and other neurological disease.

Applications

- ▶ Immune response
- ▶ Neurological diseases
- ▶ Tumor proliferation
- ▶ Gut microbiome-brain function interface

Kynurenine/Tryptophan Ratio Assay	LLOQ
	Plasma/Serum
Tryptophan	500 ng/mL
Kynurenine	50.0 ng/mL

The assay is for non-GxP testing and is not for diagnostic use.

Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 UHPLC/Sciex QTrap 5500)

Sample Type and Required Amounts

Sample Type	Sample Requirement
Plasma/Serum	100 - 150 μ L
Others on request	

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