

## Kynurenine/Tryptophan ratio in low-volume samples

# Kynurenine/Tryptophan ratio ELISA pack

Ref. ISE-2227

Composed of two distinct ELISA kits - L-Kynurenine ELISA kit BA-E-2200 and L-Tryptophan ELISA kit BA-E-2700 - the pack enables the easy determination of Kynurenine/Tryptophan ratio in cell culture supernatant, serum and plasma samples. With a minimal sample volume as low as 20 $\mu$ L per kit, the pack is particularly well suited for longitudinal studies in mice.

### SCIENTIFIC BACKGROUND

The kynurenine-tryptophan ratio (KTR) is a key marker of tryptophan catabolism along the kynurenine pathway, through the enzymatic activity of indoleamine 2,3-dioxygenase (IDO1/2) or tryptophan 2,3-dioxygenase (TDO2). KTR has been described to be increased in a wide range of pathological contexts, including cancers, infectious diseases, as well as neurological disorders. In some instances, KTR might also serve as a clinically relevant, noninvasive, predictive biomarker.

### ASSAY SPECIFICATIONS

Format	2 x 96-well kits
Species reactivity	Any species
Samples	Cell culture supernatant, plasma, serum
Sample volume	20 $\mu$ L/kit
Sensitivity	LoD KYN: < 45.7 ng/mL LoD TRP: < 1.2 $\mu$ g/mL
Assay time	Sample preparation: 1,5h ELISA: Overnight

