

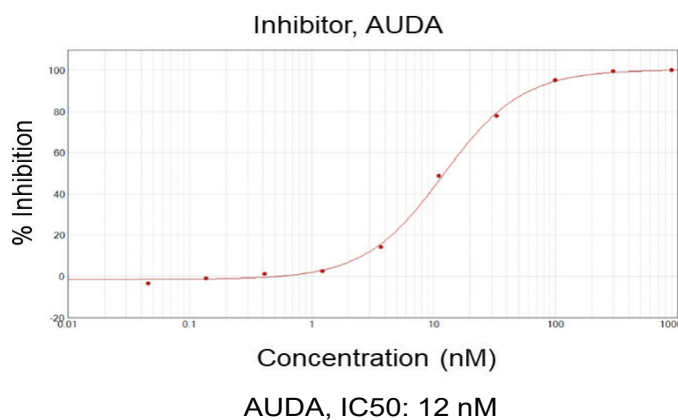
HUMAN SOLUBLE EPOXIDE HYDROLASE ACTIVITY ASSAY (SEH INHIBITORY ACTIVITY)

QPS IN VITRO PHARMACOLOGY ASSAY

Human soluble epoxide hydrolase (hsEH) is a crucial bifunctional enzyme that converts anti-inflammatory epoxy fatty acids such as epoxyeicosatrienoic acids (EETs) into inactive diols. Inhibiting hsEH increases the bioavailability of beneficial EETs, making it a target for treating hypertension, pain, and neurodegenerative diseases.

Soluble Epoxide Hydrolase Inhibitory Activity Assay Details

- ▶ The kit provides a convenient procedure for measuring enzyme activity.
- ▶ The compounds will be assessed for their ability to inhibit human soluble epoxide hydrolase (sEH) using Soluble Epoxide Hydrolase Inhibitor Screening Assay Kit (Cayman Chemical, 10011671), according to the manual.
- ▶ The compounds will be dissolved in DMSO, as a 10 mM stock solution and stored at room temperature until further use.
- ▶ For the assay, the compounds will be tested at 11 concentrations, diluted in the provided assay buffer to the desired concentrations.
- ▶ The % activity of positive control will be calculated and represented as 0% of inhibition.
- ▶ The IC₅₀ will be calculated from each % inhibition plot using the Y intercept at 50 units concentration.

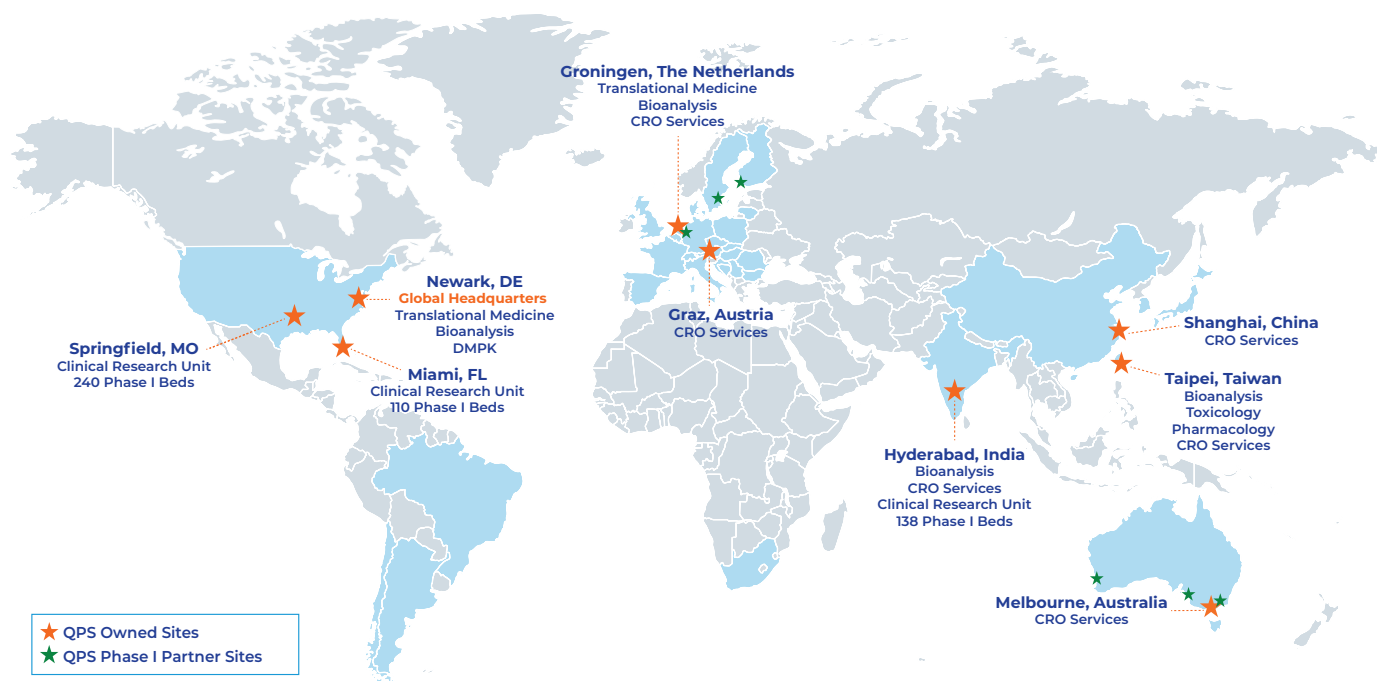


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