

EYE-002

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	EYE-002 is an RPE65 inhibitor with an IC50 of 69 nM. It enhances the recovery of dark-adapted electroretinogram (ERG) a-/b-wave amplitudes in mice. EYE-002 regulates the visual cycle in mice by reducing 11-cisretinal (11cRAL) synthesis and increasing all-trans-retinyl esters (atREs). It offers protective effects against light-induced retinal damage in mice. EYE-002 is valuable for research on retinal disorders related to the visual cycle, such as Stargardt disease type 1 (STGD1).
In vitro	EYE-002 (0.1-10 $\mu$ M) inhibits RPE65 activity in bovine retinal pigment epithelium (RPE) microsomes, with an IC50 value of 69 nM.
In vivo	EYE-002 (10 mg/kg, intraperitoneal injection, administered 30 minutes before photobleaching, with 2 hours of dark adaptation) reduces the synthesis of 11-cis-retinal (11cRAL) and increases all-trans-retinyl esters (atREs) in BALB/cj mice. Additionally, when administered EYE-002 (10 mg/kg, intraperitoneally, 0.5-4 hours before photobleaching, followed by 2 hours of dark adaptation), it restores the levels of 11cRAL and atREs to control values within 4 hours post-administration in BALB/cj mice.

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