Propenyl-L-NIO . hydrochloride

iNOS inhibitor

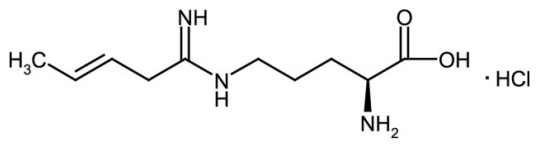
Potent, selective inhibitor of iNOS (NOS II). The K_i values for inhibition of iNOS (NOS II), nNOS (NOS I), and eNOS (NOS III) by ENIPO are 17, 10.3 and 58.2 µM, respectively, as determined using initial rate binding kinetics. However, ENIPO is a time-dependent inhibitor that, with longer incubations, demonstrates reversible tight binding inhibition that is selective for iNOS (NOS II) over nNOS (NOS I) or eNOS (NOS III). This selectivity results from iNOS (NOS II) exhibiting a 4-fold faster binding and 10-fold slower dissociation with ENIPO compared to nNOS (NOS I). K_i values for ENIPO binding to iNOS (NOS II) and nNOS (NOS I) are 0.56 and 6 µM, respectively. Accurate determination of the K_i value of ENIPO for eNOS (NOS III) has not been determined but is expected to be 50-fold less than iNOS (NOS II).

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Ordering Information Order Online »

ALX-270-497-M025	25mg

Manuals, SDS & CofA View Online »


NH
O
H3C
OH
N
H
· HCl
NH2

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 2 years after receipt when stored at -20°C.We do not recommend storing aqueous solutions for more than one day.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	N5-[(3E)-1-Imino-3-pentenyl]-L-ornithine . HCl, ENIPO . HCl
Appearance	White to off-white crystalline powder.
Couple Target	NOS
Couple Type	Inhibitor
Formula	$C_{10}H_{19}N_3O_2$. HCl
Identity	Determined by IR, MS and 1H-NMR.
MW	213.3 . 36.5
Purity	≥97% (TLC)
Solubility	Soluble in PBS, pH 7.2 (10mg/ml), 100% ethanol (10mg/ml), DMSO (2mg/ml) or dimethyl formamide (2mg/ml).

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