BAY 41-2272

Guanylyl cyclase activator

NO-independent activator of soluble guanylyl cyclase (sGC). Activates both isoforms $\alpha_1\beta_1$ and $\alpha_1\beta_2$ of sGC. While the related compound YC-1 (Prod. No. ALX-420-025) also acts as a non-specific phosphodiesterase inhibitor, BAY 41-2272 has no effect on phosphodiesterases. Stimulation of sGC is not blocked by high concentrations of NO scavengers (e.g. PTIO, Prod. No. ALX-430-007) and the combination of BAY 41-2272 with the NO donor DEA NONOate (Prod. No. ALX-430-034) potentiates the activation of sGC. Although BAY 41-2272 alone is not as strong a stimulator of sGC as NO, concentrations as low as 10-100nM stimulate sGC to a level that would be expected to cause biologically important increases in cGMP. ODQ (Prod. No. ALX-270-034), a potent and selective inhibitor of sGC, completely inhibited the effect of BAY 41-2272. The activity of BAY 41-2272 is described in selected literature references.

Citations: 20 View Online »

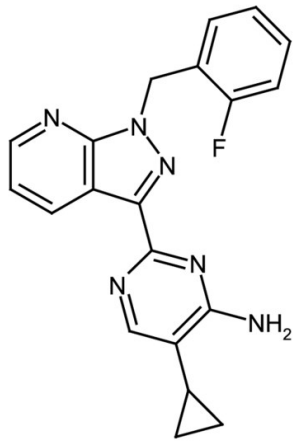
Ordering Information

Order Online »

ALX-420-030-M005	5mg
ALX-420-030-M025	25mg

Manuals, SDS & CofA

View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	3-(4-Amino-5-cyclopropylpyrimidine-2-yl)-1-(2-fluorobenzyl)-1H-pyrazolo[3,4-b]pyridine
Appearance	White to off-white needles.
CAS	256376-24-6
Couple Target	Guanylyl cyclase
Couple Type	Activator
Formula	$C_{20}H_{17}FN_6$
MW	360.4
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO, dichloromethane, 100% ethanol or 2-pyrrolidone; practically insoluble in water.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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