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Inhibitors, Agonists, Screening Libraries

Cyclic GMP-AMP Synthase

cGAS

Cyclic GMP-AMP synthase (cGAS) is a cytosolic DNA sensor that activates a type-I interferon response. cGAS binds to microbial DNA as well as self DNA that invades the cytoplasm, and catalyzes cGAMP synthesis. cGAMP then functions as a second messenger that binds to and activates the endoplasmic reticulum protein STING to trigger type-I IFNs production. STING recruits TBK1, which phosphorylates transcription factors, such as IRF3/7, and other substrates, such as IKK α , cRel, and p62.

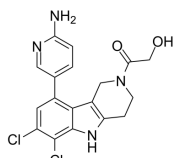
cGAS is a critical regulator of inflammatory and autophagy responses in Huntington disease (HD). cGAS can induce signaling that is known to promote the up-regulation of inflammatory genes and play a critical role in age-related macular degeneration and cellular senescence. cGAS also plays a major role in the regulation of autophagy; this indicates that there is a close molecular and signaling link between inflammatory response and autophagy.

Cyclic GMP-AMP Synthase Inhibitors

G150

Cat. No.: HY-128583

G150 is a potent and highly selective human cyclic GMP-AMP synthase (h-cGAS) inhibitor for repression of dsDNA-triggered interferon expression, with an IC_{50} of 10.2 nM.

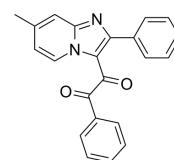


Purity: 98.20%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

IRAK4-IN-4

Cat. No.: HY-114181

IRAK4-IN-4 is an interleukin-1 receptor-associated kinase 4 (IRAK4) inhibitor extracted from patent CN107163044A, Compound15, has an IC_{50} of 2.8 nM. IRAK4-IN-4 also inhibits cyclic GMP-AMP synthase (cGAS) with an IC_{50} of 2.1 nM.

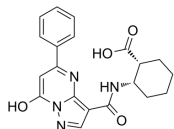


Purity: 99.72%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

PF-06928215

Cat. No.: HY-114182

PF-06928215 is a cGAS (cyclic GMP-AMP Synthase) inhibitor with an IC_{50} of 4.9 μ M. PF-06928215 has a high binding affinity of 0.2 μ M (K_d).



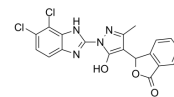
Purity: >99.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg

RU.521

(RU320521)

Cat. No.: HY-114180

RU.521 (RU320521) is a potent and selective cyclic GMP-AMP synthase (cGAS) inhibitor and inhibits cGAS-mediated interferon upregulation. RU.521 suppresses dsDNA-activated reporter activity with an IC_{50} of 700nM. RU.



Purity: 98.24%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg