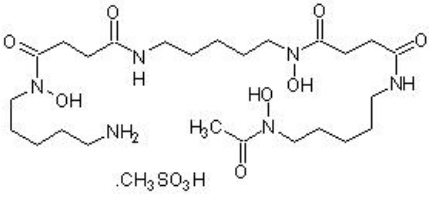


Deferoxamine mesylate, Iron chelator ab120727

10 References **4 图像**

概述

产品名称	Deferoxamine mesylate, Iron chelator
描述	Iron chelator
生物学描述	Iron chelator. Blood-brain barrier permeable. Displays a number of biological actions such as immunomodulation, inhibition of inflammation and atherosclerosis, and reduction of neuronal death.
CAS编号	138-14-7
化学结构	

性能

化学名称	<i>N</i> ⁴ -[5-[[4-5-(Acetylhydroxyamino)pentyl]-1,4-dioxobutyl]hydroxyaminopentyl- <i>N</i> ¹ -(5-aminopentyl)- <i>N</i> ¹ -hydroxybutanediamide methanesulfonate
分子量	656.79
分子式	C ₂₅ H ₄₈ N ₆ O ₈ ·CH ₃ SO ₃ H
PubChem识别号	62881
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 100 mM
处理	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILES	<chem>CC(=O)N(CCCCCNC(=O)CCC(=O)N(CCCCCNC(=O)CCC(=O)N(CCCCCN)O)O)O.CS(=O)(=O)O</chem>
来源	Synthetic

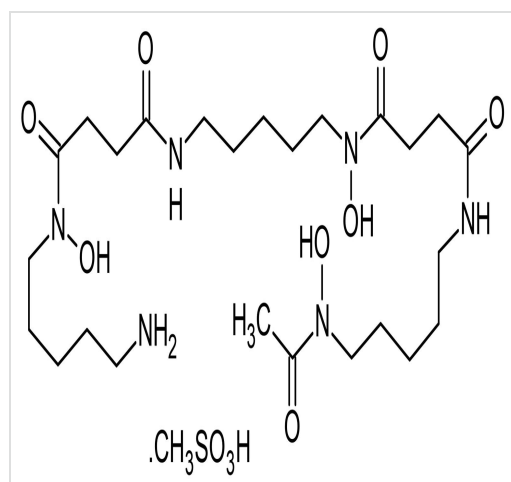
应用

The Abpromise guarantee Abpromise™ 承诺保证使用 ab120727 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

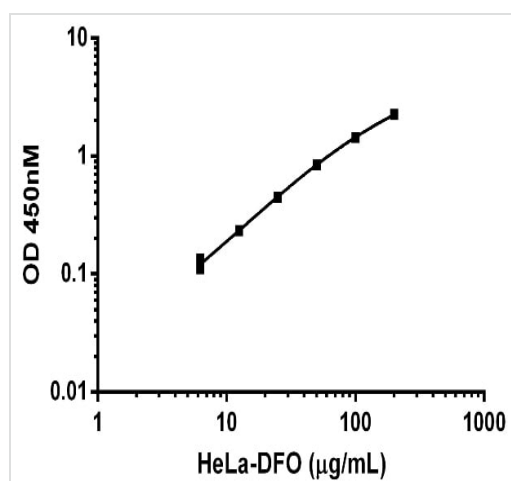
应用	Ab 评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



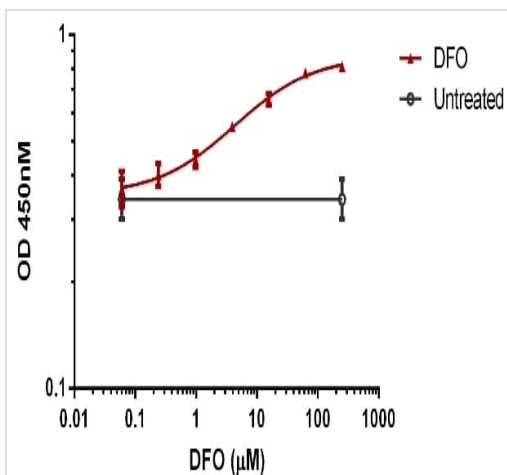
2D chemical structure image of ab120727, Deferoxamine mesylate, Iron chelator

Chemical Structure - Deferoxamine mesylate, Iron chelator (ab120727)



Titration of HeLa-DFO extract within the working range of the assay. Background subtracted data from duplicate measurements are plotted. To induce HIF1 alpha protein levels, HeLa cells were treated with 500 μM DFO (ab120727) for 24 hours.

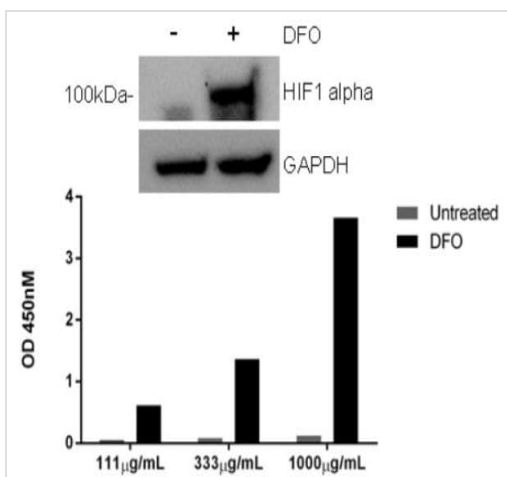
Functional Studies - Deferoxamine mesylate, Iron chelator (ab120727)



Deferoxamine mesylate, Iron chelator (ab120727)

Dose-dependent induction of HIF1 alpha in HeLa cells by DFO (ab120727). HeLa cells were cultured in 96-well tissue culture plates and were either untreated or exposed to varying dose of DFO for 24 hours. Raw data with standard deviation is plotted from triplicate measurements.

Dose-dependent induction of HIF1 alpha in HeLa cells by DFO (ab120727). HeLa cells were cultured in 96-well tissue culture plates and were either untreated or exposed to varying dose of DFO for 24 hours. Raw data with standard deviation is plotted from triplicate measurements.



Deferoxamine mesylate, Iron chelator (ab120727)

Comparison of HIF1 alpha expression in HeLa cell extracts (with and without DFO treatment) by SimpleStep ELISA (barchart) and western blot (top). Background subtracted OD450 nm data from three loading concentrations are shown. The HIF1 alpha detector antibody was used to blot the same lysates as analyzed by SimpleStep ELISA (40 μg loaded/lane). The GAPDH blot is included to show the relative loads of each lysate. In the HeLa cell line, DFO treatment is required to detect HIF1 alpha protein by both SimpleStep ELISA and western blot.

Comparison of HIF1 alpha expression in HeLa cell extracts (with and without DFO treatment) by SimpleStep ELISA (barchart) and western blot (top). Background subtracted OD450 nm data from three loading concentrations are shown. The HIF1 alpha detector antibody was used to blot the same lysates as analyzed by SimpleStep ELISA (40 μg loaded/lane). The GAPDH blot is included to show the relative loads of each lysate. In the HeLa cell line, DFO treatment is required to detect HIF1 alpha protein by both SimpleStep ELISA and western blot.

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