abcam

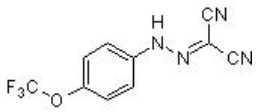
Product datasheet

FCCP, mitochondrial oxidative phosphorylation uncoupler ab120081

1 Abreviews 38 References 画像数 2

医薬用外劇物

製品の概要

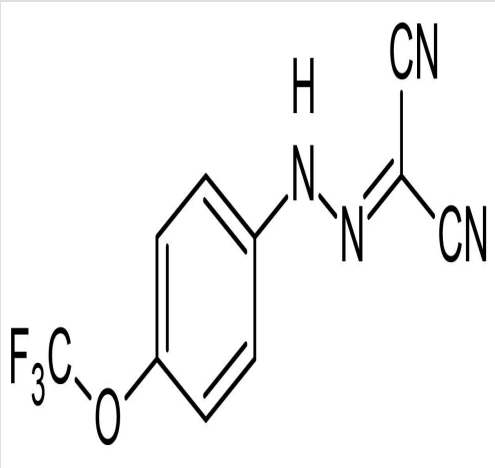
製品名	FCCP, mitochondrial oxidative phosphorylation uncoupler
製品の詳細	Potent mitochondrial oxidative phosphorylation uncoupler
生理活性の詳細	Potent mitochondrial oxidative phosphorylation uncoupler (IC_{50} = 20 nM). Disrupts ATP synthesis by transporting protons across mitochondrial inner membranes. Depolarises mitochondrial membrane potential.
精製度	> 99%
CAS 番号	370-86-5
構造式	

製品の特性

体系名	Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone
分子量	254.17
PubChem 登録番号	3330
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in DMSO to 100 mM
使用に関する注意	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. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

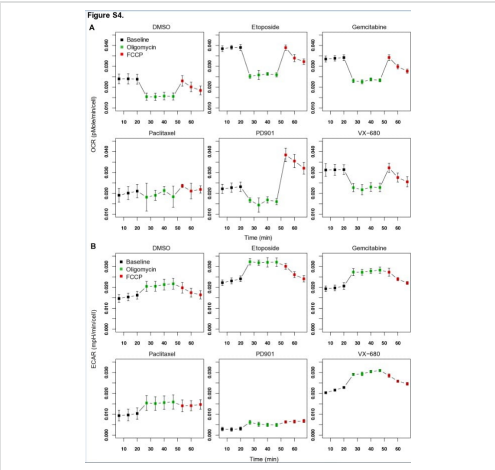
SMILES 線形表記	FC(F)(F)Oc1ccc(cc1)NN=C(/C#N)C#N
由来	Synthetic

画像



Chemical Structure - FCCP, mitochondrial oxidative phosphorylation uncoupler (ab120081)

2D chemical structure image of ab120081, FCCP, mitochondrial oxidative phosphorylation uncoupler



Cellular activation - FCCP, mitochondrial oxidative phosphorylation uncoupler (ab120081)

Image from Chan G K Y, et al. Plos One, 8(5), e63583. Fig S4,; doi: 10.1371/journal.pone.0063583

HT29 cells were treated with the indicated compounds ((etoposide, 10 µM; gemcitabine 0.1 µM; paclitaxel 0.01 µM; PD901 1 µM, VX-680 0.2 µM) for 24 hours before analysis of oxygen consumption rate (OCR) and extracellular acidification rate (ECAR) using the Seahorse XF96 extracellular flux analyzer. Baseline rates (black) were determined at the indicated times before the addition of oligomycin (green) and then FCCP (red). Rate data are normalized to per-well cell number determined by post-analysis high-content imaging.

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