



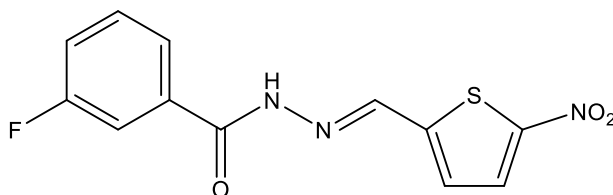
Catalog # 10-5324

MitoBloCK-10

CAS# 394694-98-5

(E)-3-Fluoro-N'-((5-nitrothiophen-2-yl)methylene)benzohydrazide; MB10

Lot # S107163



MitoBloCK-10 is a first in class TIMM44 blocker. Translocase of inner mitochondrial membrane 44 (TIMM44) is essential for maintaining function and integrity of mitochondria.¹ It induced mitochondrial dysfunction and suppressed angiogenic activity in endothelial cells.¹ Targeting TIMM44 by MitoBloCK-10 significantly inhibits bladder cancer cell growth *in vitro* and *in vivo*.²

- 1) Ma *et al.* (2023), *The mitochondrial protein TIMM44 is required for angiogenesis in vitro and in vivo*; Cell Death Dis. **14** 307
- 2) Zhang *et al.* (2024), *A first-in-class TIMM44 blocker inhibits bladder cancer cell growth*; Cell Death Dis. **15** 204

PHYSICAL DATA

Molecular Weight:	293.27
Molecular Formula:	C ₁₂ H ₈ FN ₃ O ₃ S
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com