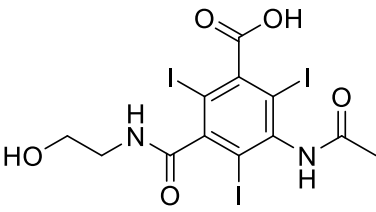


Product data sheet



MedKoo Cat#: 561634 Name: Ioxitalamic Acid CAS: 28179-44-4 Chemical Formula: C ₁₂ H ₁₁ I ₃ N ₂ O ₅ Exact Mass: 643.7802 Molecular Weight: 643.9424	
Product supplied as: Powder	
Purity (by HPLC): ≥ 98%	
Shipping conditions: Ambient temperature	
Storage conditions: Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Ioxitalamic Acid, also known as Telebrix or Vasobrix, is a medical contrast medium. It enhances the contrast of structures or fluids within the body in medical imaging.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.55 mL	7.76 mL	15.53 mL
5 mM	0.31 mL	1.55 mL	3.11 mL
10 mM	0.16 mL	0.78 mL	1.55 mL
50 mM	0.03 mL	0.16 mL	0.31 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Huang YT, Chen YY, Lai YH, Cheng CC, Lin TC, Su YS, Liu CH, Lai PC. Resveratrol alleviates the cytotoxicity induced by the radiocontrast agent, ioxitalamate, by reducing the production of reactive oxygen species in HK-2 human renal proximal tubule epithelial cells in vitro. *Int J Mol Med*. 2016 Jan;37(1):83-91. doi: 10.3892/ijmm.2015.2404. Epub 2015 Nov 9. PMID: 26573558; PMCID: PMC4687441.

In vivo study

1. El-Garawani I, Hassab El-Nabi S, El Kattan A, Sallam A, Elballat S, Abou-Ghanima S, El Azab IH, R El-Seedi H, A M Khalifa S, El-Shamy S. The Ameliorative Role of Acacia senegal Gum against the Oxidative Stress and Genotoxicity Induced by the Radiographic Contrast Medium (Ioxitalamate) in Albino Rats. *Antioxidants (Basel)*. 2021 Feb 2;10(2):221. doi: 10.3390/antiox10020221. PMID: 33540787; PMCID: PMC7912984.

7. Bioactivity

Biological target:

Ioxitalamic Acid, also known as Telebrix or Vasobrix, is a medical contrast medium.

In vitro activity

Product data sheet



Following treatment for 48 h, the highly toxic radiocontrast agent, ioxitalamate, exerted cytotoxic effects on the HK-2 cells in a concentration-dependent manner, as shown by MTT assay. The half maximal inhibitory concentration (IC₅₀) was found to be approximately 30 mg/ml. Flow cytometry also revealed a marked increase in the number of apoptotic cells following exposure to ioxitalamate. In addition, the number of necrotic, but not necroptotic cells was increased.

Reference: Int J Mol Med. 2016 Jan;37(1):83-91. <https://pubmed.ncbi.nlm.nih.gov/26573558/>

In vivo activity

The administration of TBX (ioxitalamic acid) induced a significant ($p < 0.001$) increase in serum urea and creatinine levels of treated rats with respect to the control.

Reference: Antioxidants (Basel). 2021 Feb 2;10(2):221. <https://pubmed.ncbi.nlm.nih.gov/33540787/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.