Discovery Labware, Inc.
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CORNING

Corning® Supersomes™ Ultra HEK293-derived Human Aldehyde Oxidase (AOX1) Cytosol

Catalog Number.....456801
Lot Number.....0307001

Storage Conditions.. **-80°C**
Date Released.....2020 October
Expiration Date.....2025 October

Product Description: Human AOX1 cytosol is prepared from Human Embryonic Kidney (HEK) 293 cells overexpressing human Aldehyde Oxidase (AOX1) (Gene Accession No. NM_001159). Aldehyde oxidase is a cytosolic enzyme that plays an important role in xenobiotic biotransformation. Primarily expressed in liver, AOX1 has broad substrate specificity, catalyzing the oxidation of aldehydes, aromatic azaheterocycles and nitrogen-carbon double bond containing compounds.

Negative Control Cytosol (Cat. No. 456800) prepared from HEK293 cells transfected with empty vector can be used as a control for this product.

Package Contents.....2.5 mg protein in 0.5 mL
Protein Content.....5.0 mg/mL in 0.1M potassium phosphate buffer, pH7.4

QUALITY CONTROL:

Specification	Criteria		Result
Enzymatic Assay	Ultra Supersomes:	Human AOX1	PASS
	Substrate:	250 µM zaleplon	
	Incubation time:	60 min	
	Activity (pmol/mg/min)	>=2 pmol/mg/min.	

METHOD (zaleplon assay): The reaction is initiated by adding 10 µL of 5 mg/mL AOX1 cytosol into 90 µL 100 mM potassium phosphate (pH 7.4, 37°C) containing 278 µM zaleplon substrate. The reaction mixture is incubated for 60 min at 37°C. The reaction is terminated by adding 100 µL pre-chilled acetonitrile containing 0.4 µM labetalol as internal standard. The metabolite formation is quantified using LC-MS analysis.

STORAGE and HANDLING

- Thaw on ice and keep on ice until use.
- The activity can be compromised upon freezing and thawing. The activity remains 80% or above if the sample is thawed less than 4 times. After initial thaw, it is highly recommended to aliquot sample into single use vials to minimize freeze-thaw cycles.
- Triplicate samples per assay conditions are recommended.
- The concentration of test compound and incubation time usually depends upon the specific characteristics of the drug.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Quality Assurance: _____

Date: October 22, 2020

SAFETY RECOMMENDATIONS:
Safety assessment indicates this product is not hazardous, therefore no SDS (Safety Data Sheet) is provided. Handle in accordance with good industrial hygiene and laboratory safety practices.