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DATASHEET

Tissue Clearing Kit

Product overview

Name Cat No Biological description Tissue Clearing Kit

HB8771

Hello Bio tissue clearing kit enables the easy and quick clearing of tissue and organoids for volumetric imaging without requiring any specialized equipment.

Key features:

- Rapid clearing in as little as a day (1mm tissue sections and organoids)
- Aqueous (non-solvent) based therefore compatable with standard microscope lenses
- Ideal for fluorescent imaging with low quenching after clearing
- Contains all key reagents needed including antibody penetration buffer and mounting solution.
- Widely compatible with most fluorophores and fluorescent proteins
- Preserves cell structures and morphology
- No specialized equipment required

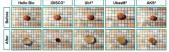
Check out our representative 3D reconstructions:

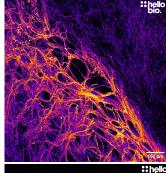
Biological action Applications Description Kit

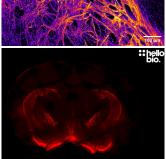
fluorescence imaging, IF

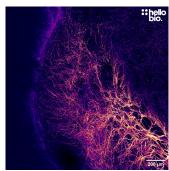
Simple rapid tissue clearing kit for volumetric imaging

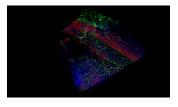
Images

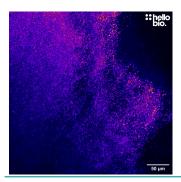












Biological Data

Application notes

Please view our full tissue clearing protocol. Representative clearing times are as follows:

Sample Type	Fixation time	Total Clearing Time	
1 mm tissue	~12 hours	~1 day	
3 mm tissue	~12 hours	~5 days	
3 - 7 mm tissue	~24 hours	~5 days	
>7mm tissue	~24 hours	~8 days	
Organoid	~30 minutes	~1 day	

Solubility & Handling

Storage instructions -20°C

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Handling Please note that some of the solutions require warming to 37 °C and any precipitate redissolving before

use

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Kit contents

- Tissue clearing solution A (30 ml)
- Tissue clearing solution B (60 ml)
- Antibody penetration buffer (100 ml) also available to purchase separately
- Mounting and Storage solution (100 ml) also available to purchase separately
- DAPI staining solution (30 ml)

References

Tutorial: practical considerations for tissue clearing and imaging.

Weiss KR et al (2021) Nature protocols 16 **PubMedID** 34021294

Tissue clearing and 3D imaging in developmental biology.

Vieites-Prado A et al (2021) Development (Cambridge, England) 148

PubMedID 34596666

Tissue Clearing and Its Application in the Musculoskeletal System.

Zhan YJ et al (2023) ACS omega 8

PubMedID 36687066